2015

Test 2134: John Deere 9570RT

Nebraska Tractor Test Laboratory
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NEBRASKA OECD TRACTOR TEST 2134–SUMMARY 1004
JOHN DEERE 9570RT DIESEL
18 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP *(kW)*	Crank shaft speed rpm	Diesel Consumption Gal/hr *(l/h)*	lb/hp.hr *(kg/kW.h)*	D.E.F. Consumption Hp.hr/gal *(kW.h/l)*	D.E.F. Consumption Gal/hr *(l/h)*	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—1109 rpm)						
307.32 *(229.17)*	2101	19.31 *(73.11)*	0.440 *(0.268)*	15.91 *(3.13)*	0.82 *(3.11)*	Fuel used during active exhaust regeneration-0.85 gal *(3.20 l)* (see note 1, p.2)
Standard Power Take-off Speed(1000 rpm)						
347.69 *(259.28)*	1895	20.33 *(76.94)*	0.409 *(0.249)*	17.11 *(3.37)*	0.70 *(2.66)*	
Maximum Power (1 hour)						
357.27 *(266.42)*	1701	20.02 *(75.79)*	0.393 *(0.239)*	17.84 *(3.52)*	0.79 *(3.00)*	
VARYING POWER AND FUEL CONSUMPTION						
307.32 *(229.17)*	2101	19.31 *(73.11)*	0.440 *(0.268)*	15.91 *(3.13)*	0.82 *(3.11)*	Air temperature
262.69 *(195.89)*	2112	17.31 *(65.54)*	0.462 *(0.281)*	15.17 *(2.99)*	0.76 *(2.87)*	73°F *(23°C)*
197.79 *(147.49)*	2123	14.37 *(54.41)*	0.509 *(0.310)*	13.76 *(2.71)*	0.53 *(1.99)*	Relative humidity
132.74 *(98.99)*	2134	11.56 *(43.77)*	0.610 *(0.371)*	11.48 *(2.26)*	0.48 *(1.81)*	37%
66.54 *(49.62)*	2145	9.02 *(34.15)*	0.950 *(0.578)*	7.38 *(1.45)*	0.28 *(1.06)*	Barometer
0.81 *(0.60)*	2157	6.67 *(25.26)*	58.007 *(35.284)*	0.12 *(0.02)*	0.17 *(0.66)*	28.14" Hg *(95.30 kPa)*

Maximum Torque - 1160 lb.-ft. *(1573 Nm)* at 1552 rpm
Maximum Torque Rise - 51.0%
Torque rise at 1682 engine rpm - 44%
Power increase at 1701 rpm - 16.3%

DRAWBAR PERFORMANCE (Unballasted)
FUEL CONSUMPTION CHARACTERISTICS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Fuel Consumption Hp.hr/gal *(kW.h/l)*	D.E.F. Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
Maximum Power—7th Gear - Manual mode										
441.46 *(329.20)*	32641 *(145.19)*	5.07 *(8.16)*	2099	2.1	0.437 *(0.266)*	16.03 *(3.16)*	0.017 *(0.011)*	208 *(98)*	51 *(11)*	28.70 *(97.19)*
75% of Pull at Maximum Power—7th Gear - Manual mode										
345.92 *(257.95)*	24453 *(108.77)*	5.31 *(8.54)*	2173	1.1	0.455 *(0.277)*	15.40 *(3.03)*	0.025 *(0.015)*	207 *(97)*	57 *(14)*	28.60 *(96.85)*
50% of Pull at Maximum Power—7th Gear - Manual mode										
234.78 *(175.07)*	16295 *(72.48)*	5.40 *(8.69)*	2202	0.6	0.510 *(0.310)*	13.73 *(2.70)*	0.031 *(0.019)*	205 *(96)*	58 *(14)*	28.57 *(96.75)*
75% of Pull at Reduced Engine Speed—5.3 mph *(8.6 km/h)*-Auto mode										
344.97 *(257.24)*	24451 *(108.76)*	5.29 *(8.51)*	1585	1.2	0.404 *(0.245)*	17.36 *(3.42)*	0.027 *(0.016)*	206 *(97)*	57 *(14)*	28.59 *(96.82)*
50% of Pull at Reduced Engine Speed—5.5 mph *(8.8 km/h)*-Auto mode										
234.80 *(175.09)*	16173 *(71.94)*	5.44 *(8.75)*	1467	0.5	0.432 *(0.263)*	16.23 *(3.20)*	0.030 *(0.018)*	193 *(89)*	58 *(15)*	28.56 *(96.72)*

Location of tests: Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln, Nebraska 68583-0832

Dates of tests: October 27 to November 13, 2015

Manufacturer: John Deere Tractor Works, 3500 East Donald St., P.O. Box 270, Waterloo Ia, 50704-0270

CONSUMABLE Fluids, OIL and TIME: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F *(15°/15°C)*** 0.8412 **Fuel weight** 7.004 lbs/gal *(0.839 kg/l)* **Diesel Exhaust Fluid (DEF)** 32% aqueous urea solution **DEF weight** 9.071 lbs/gal *(1. 087 kg/l)* **Oil SAE** 10W-30 **API service classification** CJ-4 **Transmission, hydraulic and final drive lubricant** John Deere Hy-Gard fluid **Total time engine was operated:** 33.0 hours

ENGINE: Make Cummins Diesel **Type** six cylinder vertical with turbocharger, air to air aftercooler and D.E.F.(diesel exhaust fluid) exhaust treatment **Serial No.** *79809376* **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 5.394" x 6.654" *(137.0 mm x 169.0 mm)* **Compression ratio** 17.2 to 1 **Displacement** 912 cu in *(14948 ml)* **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements and aspirator **Oil filter** one full flow cartridge **Oil cooler** engine coolant heat exchanger for crankcase oil, radiator for transmission/hydraulic oil also feeding rear axle **Fuel filter** two paper cartridges **Fuel cooler** radiator for returned fuel **Exhaust** DOC (diesel oxidation catalyst), SCR (selective catalyst reduction) and regenerative DPF (diesel particulate filter) integrated within a vertical muffler **Cooling medium temperature control** thermostat and variable speed fan

ENGINE OPERATING PARAMETERS: Fuel rate: Stationary PTO operation (395 engine hp) 130.3 - 141.0 lb/h *(59.1 - 64.0 kg/h)*, Drawbar operations (470 engine hp) 155.1 - 167.2 lb/h *(70.4-75.8 kg/h)*, (495 engine hp) 165.3-178.4 lb/h *(75.0-80.9 kg/h)*, (520 engine hp) 173.5-187.6 lb/h *(78.7-85.1 kg/h)*, (545 engine hp) 180.7-194.8 lb/h *(82.0-88.4 kg/h)*, (570 engine hp) 189.0 - 204.1 lb/h *(85.7-92.6 kg/h)* **High idle:** 2215 - 2265 rpm (2125 - 2175 rpm with PTO engaged) **Turbo boost:** (570 engine hp) nominal 26.8 - 29.7 psi *(185 - 205 kPa)* as measured 28.0 psi *(195 kPa)*

CHASSIS: Type tracklayer-rubber tracked **Serial No.** *1RW9570RJFP907080* **Track width** 107.4" *(2728 mm)* **Length of track on ground** 111.0" *(2819 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with full range operator controlled power shift **Nominal travel speeds mph *(km/h)*** first 2.51 *(4.04)* second 3.09 *(4.97)* third 3.41 *(5.49)* fourth 3.82 *(6.14)* fifth 4.20 *(6.76)* sixth 4.70 *(7.56)* seventh 5.20 *(8.36)*

DRAWBAR PERFORMANCE

(Unballasted at 2100 rpm, Manual Mode)

MAXIMUM POWER IN SELECTED GEARS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	D.E.F Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F(°C) cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
					1st Gear					
300.91 *(224.39)*	51005 *(226.88)*	2.22 *(3.56)*	2118	12.3	0.520 *(0.317)*	13.46 *(2.65)*	0.027 *(0.016)*	206 *(97)*	51 *(11)*	28.73 *(97.29)*
					2nd Gear					
336.15 *(250.67)*	43355 *(192.85)*	2.91 *(4.68)*	2100	5.7	0.472 *(0.287)*	14.85 *(2.92)*	0.024 *(0.015)*	206 *(97)*	53 *(12)*	28.71 *(97.22)*
					3rd Gear					
366.42 *(273.24)*	42557 *(189.30)*	3.23 *(5.20)*	2099	5.2	0.457 *(0.278)*	15.33 *(3.02)*	0.023 *(0.014)*	207 *(97)*	54 *(12)*	28.71 *(97.22)*
					4th Gear					
390.56 *(291.24)*	40153 *(178.61)*	3.65 *(5.87)*	2100	4.2	0.450 *(0.273)*	15.58 *(3.07)*	0.022 *(0.013)*	207 *(97)*	55 *(13)*	28.72 *(97.26)*
					5th Gear					
412.68 *(307.73)*	38285 *(170.30)*	4.05 *(6.51)*	2100	3.5	0.443 *(0.270)*	15.80 *(3.11)*	0.020 *(0.012)*	207 *(97)*	50 *(10)*	28.54 *(96.65)*
					6th Gear					
436.55 *(325.53)*	35911 *(159.74)*	4.56 *(7.34)*	2100	2.8	0.442 *(0.269)*	15.83 *(3.12)*	0.017 *(0.010)*	208 *(98)*	54 *(12)*	28.64 *(97.00)*
					7th Gear					
441.46 *(329.20)*	32641 *(145.19)*	5.07 *(8.16)*	2099	2.1	0.437 *(0.266)*	16.03 *(3.16)*	0.017 *(0.011)*	208 *(98)*	51 *(11)*	28.70 *(97.19)*
					8th Gear					
440.79 *(328.69)*	29197 *(129.87)*	5.66 *(9.11)*	2100	1.6	0.434 *(0.264)*	16.14 *(3.18)*	0.018 *(0.011)*	208 *(98)*	49 *(10)*	28.71 *(97.22)*
					9th Gear					
440.40 *(328.40)*	26235 *(116.70)*	6.30 *(10.13)*	2100	1.3	0.436 *(0.265)*	16.08 *(3.17)*	0.017 *(0.011)*	208 *(98)*	52 *(11)*	28.69 *(97.16)*
					10th Gear					
440.50 *(328.48)*	23556 *(104.78)*	7.01 *(11.28)*	2100	1.0	0.437 *(0.266)*	16.03 *(3.16)*	0.017 *(0.010)*	208 *(98)*	53 *(12)*	28.69 *(97.16)*
					11th Gear					
437.87 *(326.52)*	21150 *(94.08)*	7.76 *(12.49)*	2099	0.8	0.438 *(0.266)*	16.01 *(3.15)*	0.018 *(0.011)*	208 *(98)*	54 *(12)*	28.67 *(97.09)*
					12th Gear					
438.19 *(326.76)*	19009 *(84.56)*	8.65 *(13.91)*	2099	0.6	0.438 *(0.266)*	16.00 *(3.15)*	0.018 *(0.011)*	208 *(98)*	54 *(12)*	28.66 *(97.05)*

TRACTOR SOUND LEVEL WITH CAB	dB(A)
At no load in 6th gear	73.2
Transport speed - no load - 18th gear	75.0
Bystander in 18th gear	89.9

TIRES, BALLAST AND WEIGHT	With Ballast	Without Ballast
Track width	36.0 in *(915 mm)*	36.0 in *(915 mm)*
Ballast - Cast iron(front)	3260 lb *(1479 kg)*	None
- Cast iron(idlers)	340 lb *(154 kg)*	None
- Cast iron (side)	2725 lb *(1236 kg)*	None
Height of Drawbar	21.0 in *(535 mm)*	21.0 in *(535 mm)*
Static Weight with operator	54000 lb(*24494 kg*)	47675 lb(*21625 kg*)

eighth 5.77 *(9.29)* ninth 6.39 *(10.29)* tenth 7.10 *(11.43)* eleventh 7.85 *(12.63)* twelfth 8.73 *(14.05)* thirteenth 9.66 *(15.55)* fourteenth 10.75 *(17.30)* fifteenth 13.29 *(21.39)* sixteenth 16.35 *(26.31)* seventeenth 20.07 *(32.30)* eighteenth 24.72 *(39.77)* reverse 2.51 *(4.04)*, 3.41 *(5.49)*, 3.82 *(6.14)*, 5.20 *(8.36)*, 5.77 *(9.29)*, 7.85 *(12.63)* **Clutch** wet multiple disc hydraulically actuated by foot pedal **Brakes** wet multiple disc hydraulically actuated by foot pedal **Steering** electro-hydraulic differential steering controlled by steering wheel **Power take-off** 1000 rpm at 1895 engine rpm **Unladen tractor mass** 47500 lb *(21546 kg)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1. The manufacturer declares that the average time between active regenerations is 60 hours.

NOTE 2. The 9570RT engine has an electronic control system which provides a vehicle protection system to avoid overloading the drive train. This system provides five different engine power levels. At 2100 rpm the engine produces up to 470 hp when the transmission is in forward gears 1 and 2. At 2100 rpm the engine produces 495 hp when the transmission is in gear 3. The engine produces 520 hp when the transmission is in gear 4. The engine produces 545 hp when the transmission is in gear 5. The engine produces 570 hp at 2100 rpm for all other gears.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. The performance figures on this summary were taken from a test conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **2134**, Nebraska Summary 1004, January 19, 2016

Roger M. Hoy
Director

M.F. Kocher
P.J. Jasa
S.K. Pitla
Board of Tractor Test Engineers

DRAWBAR PERFORMANCE
UNBALLASTED - AUTO MODE
(Loads based on 2100 engine rpm manual mode performance runs)
DRAWBAR POWER AT SELECTED TRAVEL SPEEDS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	D.E.F. Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
3.9 mph *(6.2 km/h)*										
390.21 *(290.98)*	39538 *(175.87)*	3.70 *(5.95)*	1562	4.0	0.410 *(0.249)*	17.10 *(3.37)*	0.022 *(0.013)*	208 *(98)*	54 *(12)*	28.72 *(97.26)*
4.2 mph *(6.8 km/h)*										
413.66 *(308.47)*	38027 *(169.15)*	4.08 *(6.57)*	1713	3.5	0.411 *(0.250)*	17.02 *(3.35)*	0.022 *(0.013)*	207 *(97)*	51 *(10)*	28.53 *(96.61)*
4.7 mph *(7.6 km/h)*										
438.21 *(326.77)*	35793 *(159.21)*	4.59 *(7.39)*	1723	2.8	0.407 *(0.248)*	17.21 *(3.39)*	0.022 *(0.013)*	208 *(98)*	55 *(13)*	28.63 *(96.95)*
5.2 mph *(8.4 km/h)*										
440.74 *(328.66)*	32318 *(143.76)*	5.11 *(8.22)*	1719	2.1	0.408 *(0.248)*	17.17 *(3.38)*	0.023 *(0.014)*	207 *(97)*	52 *(11)*	28.70 *(97.19)*
5.7 mph *(9.2 km/h)*										
439.52 *(327.75)*	29281 *(130.25)*	5.63 *(9.06)*	1696	1.6	0.403 *(0.245)*	17.37 *(3.42)*	0.024 *(0.015)*	207 *(97)*	50 *(10)*	28.70 *(97.19)*
6.3 mph *(10.2 km/h)*										
440.27 *(328.31)*	26364 *(117.27)*	6.26 *(10.07)*	1700	1.3	0.404 *(0.246)*	17.35 *(3.42)*	0.025 *(0.015)*	207 *(97)*	53 *(12)*	28.69 *(97.16)*
7.1 mph *(11.4 km/h)*										
439.46 *(327.71)*	23496 *(104.51)*	7.01 *(11.28)*	1708	1.0	0.403 *(0.245)*	17.39 *(3.43)*	0.024 *(0.015)*	207 *(97)*	54 *(12)*	28.68 *(97.12)*
7.8 mph *(12.6 km/h)*										
438.50 *(326.99)*	21156 *(94.10)*	7.77 *(12.50)*	1707	0.8	0.408 *(0.248)*	17.16 *(3.38)*	0.024 *(0.015)*	208 *(98)*	54 *(12)*	28.66 *(97.05)*
8.7 mph *(14.0 km/h)*										
437.87 *(326.52)*	19004 *(84.53)*	8.64 *(13.90)*	1704	0.7	0.405 *(0.246)*	17.31 *(3.41)*	0.024 *(0.015)*	207 *(97)*	54 *(12)*	28.65 *(97.02)*

DRAWBAR PERFORMANCE
(Unballasted at 1750 RPM, Manual mode)
MAXIMUM POWER IN SELECTED GEARS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	D.E.F Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
					1st Gear					
301.96 *(225.17)*	51150 *(227.53)*	2.22 *(3.56)*	2118	12.3	0.518 *(0.315)*	13.52 *(2.66)*	0.028 *(0.017)*	206 *(97)*	51 *(11)*	28.74 *(97.33)*
					2nd Gear					
348.56 *(259.92)*	47255 *(210.20)*	2.77 *(4.46)*	2043	7.7	0.475 *(0.289)*	14.76 *(2.91)*	0.024 *(0.015)*	207 *(97)*	53 *(11)*	28.73 *(97.29)*
					3rd Gear					
376.18 *(280.52)*	45535 *(202.55)*	3.10 *(4.99)*	2054	7.0	0.459 *(0.279)*	15.27 *(3.01)*	0.023 *(0.014)*	207 *(97)*	54 *(12)*	28.71 *(97.22)*
					4th Gear					
408.50 *(304.62)*	44141 *(196.35)*	3.48 *(5.59)*	2033	5.8	0.448 *(0.272)*	15.65 *(3.08)*	0.021 *(0.012)*	208 *(98)*	54 *(12)*	28.71 *(97.22)*
					5th Gear					
440.83 *(328.73)*	43431 *(193.19)*	3.81 *(6.13)*	2019	5.5	0.442 *(0.269)*	15.84 *(3.12)*	0.019 *(0.012)*	208 *(98)*	54 *(12)*	28.71 *(97.22)*
					6th Gear					
471.29 *(351.44)*	42570 *(189.36)*	4.16 *(6.69)*	1961	5.2	0.438 *(0.266)*	16.00 *(3.15)*	0.017 *(0.010)*	209 *(98)*	55 *(13)*	28.71 *(97.22)*
					7th Gear					
486.50 *(362.78)*	41530 *(184.73)*	4.40 *(7.07)*	1867	4.8	0.425 *(0.258)*	16.49 *(3.25)*	0.017 *(0.011)*	209 *(98)*	55 *(13)*	28.71 *(97.22)*
					8th Gear					
491.26 *(366.33)*	40073 *(178.25)*	4.60 *(7.40)*	1750	4.2	0.419 *(0.255)*	16.73 *(3.30)*	0.018 *(0.011)*	209 *(98)*	51 *(11)*	28.52 *(96.58)*
					9th Gear					
494.67 *(368.87)*	35984 *(160.06)*	5.16 *(8.30)*	1749	3.0	0.415 *(0.253)*	16.87 *(3.32)*	0.018 *(0.011)*	209 *(98)*	49 *(9)*	28.55 *(96.68)*
					10th Gear					
498.19 *(371.50)*	32322 *(143.77)*	5.78 *(9.30)*	1750	2.1	0.411 *(0.250)*	17.06 *(3.36)*	0.019 *(0.011)*	209 *(98)*	46 *(8)*	28.58 *(96.78)*
					11th Gear					
498.47 *(371.71)*	29096 *(129.42)*	6.43 *(10.34)*	1750	1.6	0.411 *(0.250)*	17.04 *(3.36)*	0.018 *(0.011)*	208 *(98)*	46 *(8)*	28.58 *(96.78)*
					12th Gear					
500.05 *(372.88)*	26173 *(116.42)*	7.17 *(11.53)*	1750	1.3	0.411 *(0.250)*	17.06 *(3.36)*	0.018 *(0.011)*	208 *(98)*	47 *(8)*	28.58 *(96.78)*
					13th Gear					
492.88 *(367.54)*	23238 *(103.37)*	7.95 *(12.79)*	1750	1.0	0.416 *(0.253)*	16.85 *(3.32)*	0.019 *(0.011)*	208 *(98)*	48 *(9)*	28.56 *(96.72)*

Lugging ability in 11th gear

Crankshaft speed rpm	2099	2001	1900	1850	1749	1599	1399	1100
Pull-lbs	21100	24116	26317	27269	29166	30894	30225	28186
(kN)	*(93.86)*	*(107.27)*	*(117.06)*	*(121.30)*	*(129.74)*	*(137.42)*	*(134.45)*	*(125.38)*
Increase in pull %	0	14	25	29	38	46	43	34
Power-Hp	436.88	474.73	491.08	494.87	499.31	482.42	413.44	304.02
(kW)	*(325.78)*	*(354.01)*	*(366.20)*	*(369.02)*	*(372.34)*	*(359.74)*	*(308.30)*	*(226.71)*
Speed-mph	7.76	7.38	7.00	6.81	6.42	5.86	5.13	4.04
(km/h)	*(12.49)*	*(11.88)*	*(11.27)*	*(10.96)*	*(10.33)*	*(9.43)*	*(8.26)*	*(6.50)*
Slip %	0.8	1.0	1.3	1.4	1.6	1.8	1.7	1.4

DRAWBAR PERFORMANCE
(Ballasted at 1750 RPM, Manual mode)
MAXIMUM POWER IN SELECTED GEARS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	D.E.F Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
					1st Gear					
335.66 *(250.30)*	58525 *(260.33)*	2.15 *(3.46)*	2035	11.6	0.493 *(0.300)*	14.20 *(2.80)*	0.023 *(0.014)*	208 *(98)*	58 *(14)*	28.59 *(96.82)*
					2nd Gear					
374.08 *(278.95)*	55187 *(245.48)*	2.55 *(4.10)*	1891	8.8	0.457 *(0.278)*	15.31 *(3.02)*	0.022 *(0.013)*	208 *(98)*	60 *(15)*	28.59 *(96.82)*
					3rd Gear					
409.21 *(305.14)*	54023 *(240.31)*	2.85 *(4.58)*	1894	7.9	0.442 *(0.269)*	15.83 *(3.12)*	0.020 *(0.012)*	208 *(98)*	62 *(16)*	28.60 *(96.85)*
					4th Gear					
425.54 *(317.32)*	50001 *(222.42)*	3.20 *(5.14)*	1900	7.6	0.453 *(0.275)*	15.47 *(3.05)*	0.019 *(0.012)*	212 *(100)*	81 *(27)*	28.54 *(96.65)*
					5th Gear					
450.83 *(336.18)*	49516 *(220.26)*	3.42 *(5.50)*	1843	7.4	0.445 *(0.271)*	15.73 *(3.10)*	0.018 *(0.011)*	212 *(100)*	82 *(28)*	28.55 *(96.68)*
					6th Gear					
473.32 *(352.95)*	48592 *(216.15)*	3.66 *(5.88)*	1750	7.1	0.442 *(0.269)*	15.86 *(3.13)*	0.017 *(0.011)*	214 *(101)*	81 *(27)*	28.56 *(96.72)*
					7th Gear					
491.07 *(366.19)*	44601 *(198.40)*	4.13 *(6.64)*	1750	4.6	0.427 *(0.260)*	16.41 *(3.23)*	0.016 *(0.010)*	213 *(101)*	79 *(26)*	28.57 *(96.75)*
					8th Gear					
498.58 *(371.79)*	40225 *(178.93)*	4.65 *(7.48)*	1750	3.4	0.421 *(0.256)*	16.62 *(3.27)*	0.017 *(0.010)*	214 *(101)*	80 *(27)*	28.56 *(96.72)*
					9th Gear					
496.96 *(370.58)*	35821 *(159.34)*	5.20 *(8.37)*	1750	2.4	0.419 *(0.255)*	16.73 *(3.30)*	0.016 *(0.009)*	211 *(99)*	75 *(24)*	28.59 *(96.82)*
					10th Gear					
500.27 *(373.05)*	32303 *(143.69)*	5.81 *(9.34)*	1750	1.9	0.419 *(0.255)*	16.71 *(3.29)*	0.016 *(0.010)*	212 *(100)*	76 *(24)*	28.59 *(96.82)*
					11th Gear					
500.49 *(373.21)*	29130 *(129.57)*	6.45 *(10.37)*	1750	1.5	0.419 *(0.255)*	16.74 *(3.30)*	0.016 *(0.009)*	212 *(100)*	77 *(25)*	28.58 *(96.78)*
					12th Gear					
501.16 *(373.72)*	26163 *(116.38)*	7.19 *(11.56)*	1750	1.2	0.417 *(0.254)*	16.80 *(3.31)*	0.016 *(0.010)*	211 *(99)*	78 *(25)*	28.58 *(96.78)*
					13th Gear					
493.05 *(367.67)*	23204 *(103.22)*	7.97 *(12.83)*	1749	1.0	0.424 *(0.258)*	16.54 *(3.26)*	0.016 *(0.010)*	212 *(100)*	78 *(25)*	28.58 *(96.78)*

HYDRAULIC PERFORMANCE

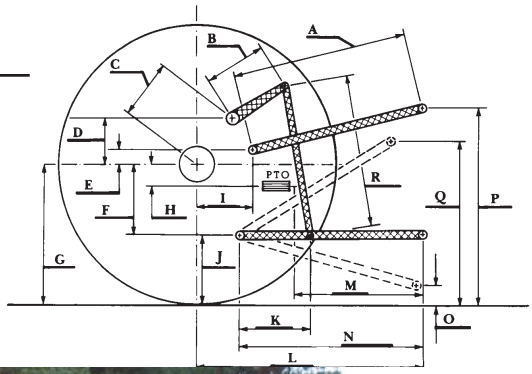
CATEGORY: 4N/4
Quick Attach: Yes
OECD Static test

	Category 4N	lift cylinders
Maximum force exerted through whole range:	15410 lbs *(68.5 kN)*	(1 x 90 mm and 1x100 mm)
	20679 lbs *(92.0 kN)*	(2 x 110 mm)
	Category 4	
	15346 lbs *(68.3 kN)*	(1 x 90 mm and 1x100 mm)
	20526 lbs *(91.3 kN)*	(2 x 110 mm)
	Base pump	**Tandem pump**
	three outlet sets combined	
i) Sustained pressure at compensator cutoff:	2959 psi *(204 bar)*	2910 psi *(201 bar)*
ii) Pump delivery rate at minimum pressure and rated engine speed:	61.2 GPM *(231.6 l/min)*	56.8 GPM *(214.9 l/min)*
Combined flow:	118.0 GPM *(446.5 l/min)*	
iii) Pump delivery rate at maximum hydraulic power:	61.2 GPM *(231.8 l/min)*	57.2 GPM *(216.3 l/min)*
Delivery pressure:	2614 psi *(180 bar)*	2458 psi *(169 bar)*
Power:	93.4 HP *(69.6 kW)*	82.0 HP *(61.1 kW)*
	single outlet set	
	3/4" couplers	1/2" couplers
i) Sustained pressure at compensator cutoff:	2856 psi *(197 bar)*	2957 psi *(204 bar)*
ii) Pump delivery rate at minimum pressure and rated engine speed:	43.1 GPM *(163.2 l/min)*	37.0 GPM *(140.2 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	42.5 GPM *(160.9 l/min)*	35.0 GPM *(132.6 l/min)*
Delivery pressure:	2226 psi *(153 bar)*	2284 psi *(157 bar)*
Power:	55.2 HP *(41.2 kW)*	46.7 HP *(34.8 kW)*

	Category 4N		Category 4	
	inch	*mm*	inch	*mm*
A	31.4	*798*	30.1	*765*
B	19.7	*500*	19.7	*500*
C	25.0	*635*	25.0	*635*
D	24.4	*620*	24.4	*620*
E	12.8	*325*	12.8	*325*
F	13.8	*350*	13.8	*350*
G	36.6	*930*	36.6	*930*
H	2.4	*60*	2.4	*60*
I	18.7	*474*	18.7	*474*
J	22.8	*580*	22.8	*580*
K	30.9	*785*	30.9	*785*
L	52.8	*1342*	52.8	*1342*
*L'	58.7	*1491*	59.6	*1515*
M	22.8	*580*	22.8	*580*
N	51.5	*1308*	51.5	*1308*
O	9.0	*230*	9.0	*230*
P	49.8	*1266*	49.8	*1266*
Q	40.3	*1023*	40.1	*1018*
R	50.2	*1275*	50.4	*1280*

*L' to Quick Attach ends

HITCH DIMENSIONS AS TESTED—NO LOAD



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